

# Surgical Displays

Surgical and endoscopy displays designed to provide unsurpassed precision while meeting the specific safety and space requirements of the integrated operating theater.

Manufactured by Barco and Mavig.

your single source supplier



your single source supplier

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## About Barco

### A Trusted Partner in Medical Imaging

Nearly twenty years of experience and innovation have placed Barco in a unique position at the heart of the medical imaging landscape. Barco has established a strong reputation in the industry with its comprehensive range of solutions for diagnostic, clinical and surgical imaging. Its commitment to quality and service has earned the trust of customers and partners from all over the world.

### Committed to Quality

Barco applies the most stringent quality standards throughout the development cycle of all its imaging products. This commitment to quality is your guarantee for long-term image quality and protection of your investment.

### First-Rate Support Wherever You Are

For optimum peace of mind, customers can benefit from a full palette of dedicated services that optimize their uptime and keep their expenses under control. Barco's worldwide network of support services is a guarantee for professional assistance, wherever you are, whenever you need it.

### Near-Patient Surgical Displays

The complexity of general and minimally invasive surgery places high demands on technology and medical staff. Surgical teams increasingly rely on modern imaging technology that delivers real-time views of patient anatomy as well as quick access to archived radiology images. With the MDSC family, Barco brings exceptional image quality, stability, and reliability to the operating theater. The 19 and 24-inch displays offer a versatile visualization solution for endoscopic cameras, room and boom cameras, ultrasound, PACS and patient information.



# MDSC At-A-Glance

Barco provides fast, high quality displays with a range of connectivity and compatability options. In a surgical enviroment the wide angle viewing, improved depth perception and excellent performance offered by Barco's products are highly beneficial.

## High-Grade Image Quality

Thanks to their advanced image processing algorithms, the MDSC displays ensure extremely fast image renditions. As a result, users are presented with artifact- free and lag-free pictures at all times, allowing for better hand-view co-ordination. Optimised for high definition endoscopy, the MDSC displays also contribute to the improved depth perception and enhanced recognition of anatomical landmarks resulting from HD cameras.

## Optimum Viewing Comfort

High-bright LCD technology guarantees excellent performance under high ambient light conditions. Moreover, the very wide viewing angle ensures bright and color accurate images, even when the surgeon is not directly in front of the display. Individual user preferences can be configured and stored to create a streamlined and comfortable way of working.

## Designed for the Digital Operating Room

Thanks to their compatibility with the VESA standard, MDSC displays are easy to install onto surgical carts or booms. Their built-in cable compartment hides and protects the cables. An RS232 communication function allows for remote control and easy integration in turnkey systems.

## Flexible, Multi-Source Imaging

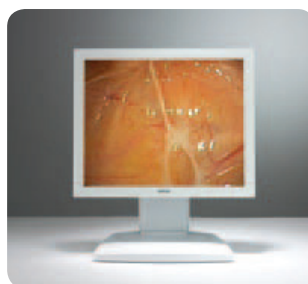
A multitude of analog and digital connectivity options (DVI, HDS DI, RGBS, DVI optical etc) brings broad flexibility to the OR. Multiple sources can even be displayed simultaneously (Picture-In-Picture, Picture-And-Picture), to allow for ultimate freedom in viewing. Even radiology images can be displayed with pinpoint accuracy, thanks to the display's integrated DICOM Look-Up-Table.

## Easy Cleaning and Disinfection

Increasing concerns about healthcare-associated infections such as MSRA ask for firm sterility and contamination control policies. For this reason, MDSC displays have been designed with a sealed, aluminum housing which offers protection against ingress of liquid, dust and other substances and makes them easy to clean and disinfect.

The fan-less design avoids the spread of contaminants in the sterile field, while the anti-reflective front cover protects the valuable LCD against damage from intensive use.

## Available Models



MDSC-1119



MDSC-2124





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- Formless design
- Compliant to safety standards
- Protective housing, easy to disinfect

## Unsurpassed Image Quality

Incorporating the latest LCD technology, the MDSC-1119 features high brightness, making it ideal for the OR's high ambient light conditions. Furthermore, the MDSC-1119's high contrast ratio, color depth and wide viewing angle maximise image accuracy. Calibration of color, luminance and signal balance add to the optimal and unsurpassed image quality.

## Designed for the Integrated OR

- Compact size
- Easy to install
- Remote control for greater access

## 19-Inch Colour LCD Display

Barco's MDSC-1119 is a 19-inch, 1.3 MegaPixel color LCD display that provides surgical teams with artifact-free images and unequalled precision, while meeting the unique patient safety and space requirements of the integrated OR.

19-Inch Colour LCD Display

MDSC-1119

Technology	TFT AM LCD technology
Pixel pitch	.294 mm
Active screen diagonal	19"
Active screen width	376 mm (14.8")
Active screen height	301 mm (11.9")
Native resolution	1280 x 1024
Luminance	300 cd/m <sup>2</sup>
Contrast	700:01:00
Viewing angle	178°
Video inputs	DVI-I, VGA (D15), RGBS (4BNC), S-Video, Composite video, Component video(4BNC) DVI fiber optical input SDI/HD-SDI (BNC) input/output(optional) DVI Fiber optic input (optional) PAL, SECAM, NTSC 3.58 & 4.43, HDTV (1080i, 720p, 480i/p, 1030i), SDI 4:2:2: (270 Mb/s)
Dimensions	427 x 356 x 81 mm (16.8 x 14.0 x 3.2")
Weight	8 kg / 17,6 lb
Approvals	UL 60601-1, EN60601-1, CE, c-UL, KETI, PSE EMC: FCC-B, EN 60601-1-2, ICES- 001, KETI, VCCI, CCC
Options	table stand
Display functions	Gamma, DICOM
Control	RS232 (9-pin D-sub) On Screen Display (OSD)
Mounting	75 & 100 mm VESA
Integral protection	IPX2



# MDSC-2124

## Advanced Technology, High Performance

- 24-inch wide-screen LCD featuring full HD (1920 x 1200)
- Advanced image processing algorithms
- High brightness (500 cd/m2)
- Wide input connectivity for maximum flexibility
- Color accurate images at different viewing angles

## Flexible, Multi-Source Imaging

Thanks to the bright, high-resolution LCD panel, surgeons are presented with stunning panoramic views and excellent depth perception. With its broad input connectivity, the MDSC-2124 offers a versatile display solution for HD endoscopy cameras, room and boom cameras, ultrasound, PACS and patient information.

## Artifact-Free Video Images

The MDSC-2124 offers the fastest image transmission and the highest broadcast quality imaging available today. Enhanced with Barco's outstanding image processing algorithms, such as motion adaptive de-interlacing and noise reduction, the MDSC-2124 delivers artifact- and lag-free images at all times.



## 24-Inch Wide-Screen LCD

The MDSC-2124 is a 24-inch near-patient surgical display that uses widescreen (16:10) LCD technology featuring full high definition resolution (1920 x 1200).

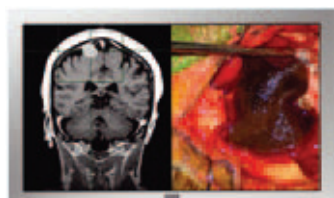
24-inch wide-screen LCD MDSC-2124

Technology	TFT LCD
Pixel pitch	0.270 x 0.270
Active screen diagonal	612 mm (24.1")
Active screen width	518 mm (20.5")
Active screen height	324 mm (12.8")
Native resolution	1920 x 1200
Approvals	UL 60601-1; CE ; FCC, c-UL, KETI ; PSE
Luminance	500 cd/m ^ 2
Contrast	1000:1
Viewing angle	178°/178°
Response time	5 ms
Video inputs	DVI-I, VGA (D15), RGBS (4BNC), S-Video, Composite video, Component video (4BNC), SDI/HD-SDI (Input and output)
Dimensions	590 x 517 x 108 mm (23.2 x 20.3 x 4.2")
Weight	10,9 kg (24 lbs)
Power consumption	90V - 26V(50Hz - 60Hz)
Operating temperature range	0° to 40°C (41° to 104°F)
Options	table stand
Aspect Ratio	16:10
Display functions	Gamma, DICOM
Supported resolutions	On composite, S-video and component inputs: PAL-Secam 576i, NTSC 480 i/p On DVI, VGA and RGBS inputs: VGA up to WUXGA, HDTV 720p and 1080 i/p On SD/HD-SDI input: 480i, 576i, HDTV 720p and 1080i
Mounting	100 mm VESA
Control	RS232, GPIO, OSD

# Large-Screen OR Displays

Barco's large-screen range of displays offer optimal quality and clarity for critical information, imperative in a surgical environment. Wide angle viewing, pinpoint precision, vivid accuracy and the ability to attach other video sources via the DVI and HD-SDI inputs are just a few of the advantages and key features available.

## Available models

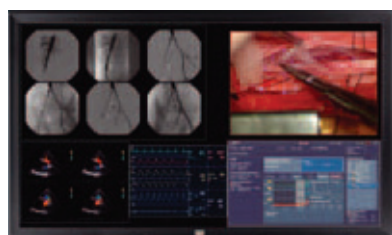


### 42-Inch Full HD Display

The Barco MD-4221 is a 42-inch full high definition (1920 x 1080) monitor designed and certified for use in the digital operating room. The versatile display can visualize a wide range of analog and digital video sources, including HD endoscopic video, room and boom camera video, patient and surgery information, radiology and pathology images, with ultimate detail.

42-Inch Full HD Display

MD-4221



### 56-Inch Quad Full HD Display

LC-5621 is truly unique. This 56-inch, 8 MegaPixel (3,840 x 2,160) display delivers four times HD resolution on a single LCD panel. In combination with an external multiview image scaler, a wealth of multi-modality information can be displayed simultaneously.

56-Inch Quad Full HD Display

LC-5621

## Large-Screen OR displays

In today's equipment-packed operating theaters, surgical teams are faced with a growing need for imaging solutions that centralize all critical information on one screen and make it visible for everyone in the room. Barco's MD-4221 display responds to this demand by providing large-screen, high-resolution flat panel technology for the surgical suite.

The MD-4221 provides nurses, surgeons and anesthesiologists with smooth, artifact-free images that allow for better, more informed decisions and more efficient procedures. Typical applications include endoscopic video and radiology.

### MD-4221 At-A-Glance

Large-screen images in high definition. With a native resolution of 1920 x 1080 pixels, the MD-4221 presents patient information, pathology images and endoscopic video with pinpoint precision on a 42-inch screen. The large-screen (16:9) display delivers bright and crisp pictures that do full justice to surgery images in the bright OR environment. Their wide viewing angle ensures bright and color accurate images, even when the surgeon is not directly in front of the display. High definition video sources (HD endoscopy cameras, HD surgical light cameras etc) can be connected through DVI and HD-SDI input.

### User-Definable Screen Layout

Users can easily configure their screen for Picture-In-Picture or Picture-And-Picture layouts. This allows for more dynamic presentations, while displaying more information on the same screen. Size and position of the Picture-In-Picture setup are easy to configure.

### Bringing PACS to the OR

Thanks to its integrated DICOM Look-Up-Table, the MD-4221 display also offers an ideal solution for PACS imaging in the OR. Installed against the wall as a large-screen digital lightbox, it can present life-size, DICOM-compliant images of the body parts that need treatment.

### Smooth, Artifact-Free Video Images

Featuring an extremely fast response time, the MD-4221 reproduces moving surgery images with vivid accuracy. Moreover, the monitor automatically locks to the input frequency of the connected source, making all motion very smooth and without artifacts.

### Medically Approved

The MD-4221 display is designed and certified for use in the digital operating room. The anti-reflective protective front glass allows the monitor to be cleaned and disinfected (IPX1 compliant), while its fan-less design avoids the spread of contaminants in the OR.





# MD-4221

## Bringing PACS to the OR

Fitted with a 10-bit high-contrast LCD panel and a built-in DICOM Look-Up Table, the MD-4221 is optimal for consulting PACS images in the OR.

## User-Definable Screen Layout

The MD-4221 lets you combine two images - in any mix of data and video - next to each other or as Picture-In-Picture. Its wide viewing angle of 178° ensures that all this information is clearly visible for everyone in the surgery suite.

## Designed for the Operating Suite

An anti-reflective protective front glass allows the monitor to be cleaned and disinfected (IPX1 compliant), while its fan-less design avoids the spread of contaminants in the operating room.

## 10-Bit High-Contrast LCD

- High-bright LCD panel (IPS) with Full HD resolution
- Medically certified (safety and EMC)
- Built-in DICOM LUT for PACS imaging
- 10-bit color depth (>1 billion colors)
- Smooth, artifact-free video images
- Fan-less design for minimum risk of contamination
- Anti-reflective protective front glass
- Remote control over RS232

10-bit high-contrast LCD

MD-4221

Technology	TFT LCD
Pixel pitch	.485 mm
Active screen diagonal	1067 mm (42")
Active screen width	930 mm (36.62")
Active screen height	523 mm (20.60")
Emission	EN 60601-1-2; FCC-B; ICES-001; VCCI; KETI; BSMI
Native resolution	1920 x 1080 (full HD)
Luminance	500 cd/m²
Contrast	1400:01:00
Viewing angle	178° (CR >10)
Response time	5 ms (Gray to Gray)
Video inputs	DVI, VGA, S-Video, Composite Video, Component Video, RGBHV, (HD)SDI
Video Outputs	DVI, (HD)SDI
Dimensions	1023.5 x 616.5 x 104.5 mm (40.30 x 24.27 x 4.11 inch) (W x H x D)
Weight	29 kg (64 lbs)
Power consumption	< 260 Watts (< 17 Watts in standby)
Approvals	EN 60601-1-2; FCC-B; ICES-001; VCCI; KETI; BSMI
Operating temperature	5° to 40°C (41° to 104°F)
Supported resolutions	On Composite, S-Video and Component inputs : PAL-SECAM 576i, NTSC 480i On Component input : PAL-SECAM 576i, NTSC 480i; 1080i/p up to 60H On DVI, VGA & RGBHV inputs : VGA up to UXGA; HDTV 720p, 1080 i/p up to 60 Hz On (HD)SDI : 480i, 576i, 720p, 1035i, 1080i up to 60Hz; 1080p up to 30 Hz
Control	RS232, IR Remote Control, OSD
Display functions	Gamma, DICOM
Mounting	VESA MIS F; 600; 200 – 8

# LC-5621

## Ultra-High Resolution

Barco's LC-5621 is able to show large amounts of data in ultimate detail.

## Faster Response Time

Thanks to its extremely fast response time (6.5 ms gray to gray), the LC-5621 reproduces fast-moving action scenes with vivid accuracy.

## Wide Viewing Angle

The wide viewing angle (176°) and large surface are very beneficial in collaborative environments where detailed information is viewed by multiple participants.

## Adjustable Color Temperature

The color temperature can be set to 5600K, 6500K, 7500K, 8500K, or 9300K to adjust the color balance to different user requirements. User adjustment of the color balance is also possible with R, G and B sliders.

## VESA Mounting Structure for Easy Installation

Integrated mounting interfaces according to the VESA standards allow easy wall or ceiling installation with VESA-approved standard (VESA MIS F, 800, 400, 8). Table stands and mounting devices are optional.

- High brightness
- High contrast, even in high ambient light environments
- Low power consumption
- Long lifetime



## 56" Quad Full High Definition

Barco's LC-5621 display has been specifically designed for use in dedicated professional applications. The display features quad full high definition (3840x2160) and delivers crisp, clear and color-accurate perfect images on a large display size with 56" diagonal.

56" Quad Full High Definition

LC-5621

Technology	TFT LCD
Resolution	3840x2160
Lifetime	50,000h average
Colors	16.8 million
Color gamut	75% NTSC
Aspect Ratio	16:9
Viewing angle	176°/176°
Response time	6.5 ms
Dots per inch	78 dpi
Color adjustment	5600K, 6500K, 7500K, 8500K, 9300K, User (R, G, B sliders)
Contrast ratio	1200:1
Brightness	400cd/m²
Standard inputs	Two Dual-link DVI inputs
Supported resolution	3840x2160 (1920x2160 on each DVI input)
Control	- RS232 control; Baud-rate: 9600 - On Screen Display (OSD) - IR remote control
Input	85V-264V (50Hz-60Hz)
Acoustic Noise	21 dB(A) with default brightness value
Power consumption	500W
Operating temperature	5° to 35°C (41° to 95°F)
Humidity	Nom 75% @ 35°C > (95°F)
Regulation Compliance	CE, UL, FCC A, TÜV, VCCI Class A
Cooling	Fans for optimized cooling
Active screen diagonal	56.2" (1,427.5 mm)
Active screen area	1,244 x 700 mm (48.98" x 27.56")
Dimensions	1,345 x 801 x 135 mm (53" x 31.54" x 5.31") without stand
Weight	58kg (128 lbs) with stand

# Mavig Monitor Suspension Systems

The patented Mavig ceiling track system and the outstanding mobility of the extension/spring arm offer maximum flexibility – the monitors are always at eye level for the doctor. The slightly concave monitor arrangement offers an optimal examination perspective. Solid handles simplify handling and protect the monitors against impacts.

For many years, Mavig has been the first choice among monitor suspension systems. The stable, high-quality systems are optimally designed for routine use in the hospital or the radiological practice. They offer maximum safety and high flexibility. Mavig life cycle testing ensures 100-percent quality of all products delivered. The products are furthermore UL and CE certified. Mavig is also ISO EN 13485-2003 certified by the TÜV Product Service.



Sleek, versatile and compact for easy installation



# Smart Systems

Multifunctional monitor suspension systems for diagnostic and clinical applications. For many years, Mavig has been the first choice among monitor suspension systems. The stable, high-quality systems are optimally designed for routine use in the hospital or the radiological practise. They offer maximum safety and high flexibility. All kinds of LCDs with VESA adaptor can be mounted for seamless alignment.

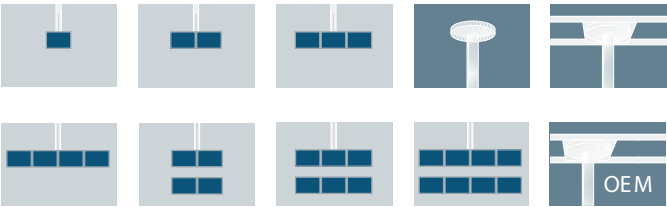
Mavig life cycle testing ensures 100-percent quality of all products delivered. The products are futhermore UL and CE certified. Mavig is also ISO EN 13485-2003 certified by TÜV Product Service.

## The Sleek Monitor Suspension for Very High Loads

Minimum space for several monitors – thanks to its sleek design with a motorised column, the GD67 fits in small spaces and still offers a great many extension variants.

## Maximum Capabilities

Up to eight monitors can be installed with ease. Combination with the Mavig ceiling track system greatly enhances the radius of action. The motorised vertical column can be rotated through 330°. The integrated vertical balance adjustment simplifies extensions of different monitor sizes and weights, which can be installed gap-free.



# The Versatile Monitor Suspension System

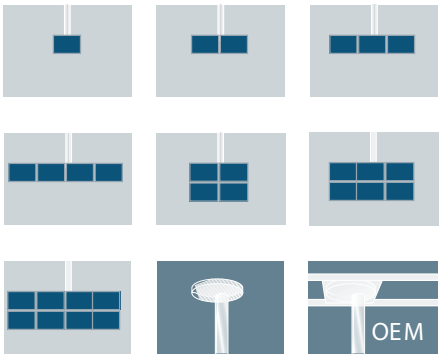
Our patented on-site rapid balance adjustment system, universal joint for easy, torque-free operation, fully intergrated cabling and the rapid adjustment to different monitor sizes are only some of the many features provided. The system is designed for heavy load conditions - its weight capacity ranges up to 116kg (255 lbs.)

## Suspension

The universal joint suspension allows rapid movement of the system in case of emergency, eliminates torque effects and enhances system life.

Suspension

GD67



The powerful monitor suspension with maximum mobility.

## Versitile Track

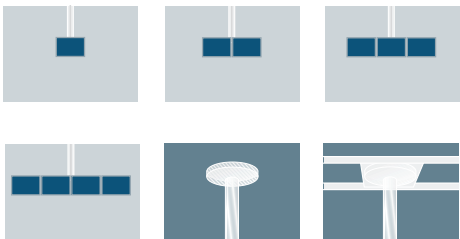
The GD65 combines the versatile Mavig track system with the sophisticated Mavig suspension for one to four monitors, designed for easy and smooth, torque-free operation. In case of collisions during routine use the GD65 discretely retracts – with no damage to the instruments or injuries to persons.

## Assembly

The modular system allows the installation of additional monitors, infrared receivers and other accessories. The patented track system is simple to install and offers a maximum of safety.

Versitile Track

GD65





## Economic Solution for Existing Track Systems

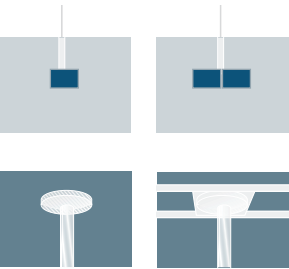
The economically priced “DUAL” system provides a solution for existing Mavig 335 track systems in the field. Due to its slim design and less weight, a GD75 can easily be slipped into pre-installed, smaller 335 tracks at any time, while the GD70 fits in stationary systems.

### Maximum Functionality

The system for two LCD monitors should be cabled externally only. Many functions of the “big” systems, like bended horizontal rail for perfect viewing angle, aligned LCD positioning

Economic Solution

GD70/75



## The Smart Monitor Suspension System

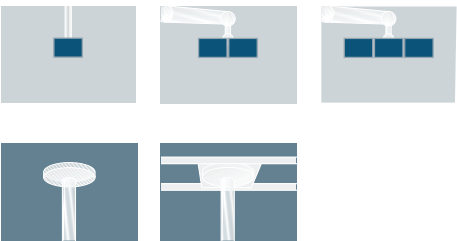
For a load of up to 44kg (97lbs.), a flexible spring arm with integrated cabling normally, only considerably larger systems have these features. Thanks to its equipment, the only one, two or three monitors are required.

### Ceiling Track System

Thanks to the spring arm, the monitors can be easily positioned. The Mavig ceiling track systems enabled a larger positioning area: the patented track system is simple to install and offers a maximum of safety and performance.

Smart Monitor Suspension

GD72/76



# Great Flexibility for Extension With All Applications

The Portegra2 ceiling suspension system offers various patented safety features. The maximum load capacity of each mounting post is 18kg (40lbs.) net. The attractive plastic coverings conceals hardware and blends with the surrounding equipment.

## Patented Ceiling Anchor

Ceiling anchor provided with stationary systems prevents accidental disconnection of system in case of collision with other equipment.

Ceiling Suspension System

GD4020



## Mobile System










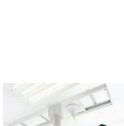

















Mobile system in radiological rooms are always a safety hazard. On the basis of numerous statics calculations and optimal design, the MD70 offers a maximum of safety. The sleek look of the monitor cart permits unimpeded communication between the doctor and the medical assistant. The chassis is as small as possible and still dimensioned to be as stable as necessary. A cable roll-up on the column stand takes up excess cabling and eliminates the danger of unnecessary stumbling hazards.

Mobile System

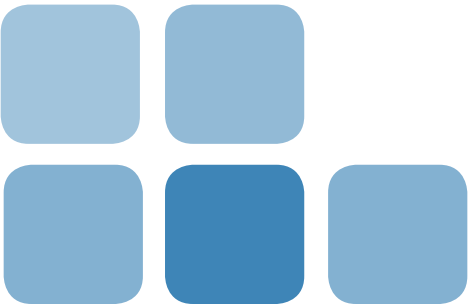
MD70

# Monitoring Suspension Systems

## Product Specification and Certification

	System	Certification	1 Monitor	2 Monitors
	GD4020	Available also as certified precabled version  	Stationary For Mavig track 335 < 18kg / 40lbs. External cabling only	
	GD70	Available also as certified precabled version  	Stationary <28kg / 62lbs. External cabling only	Stationary <28kg / 62lbs. External cabling only
	GD75	Available also as certified precabled version  	For Mavig track 335 For Mavig track 480 <28kg / 62lbs. External cabling only	For Mavig track 335 For Mavig track 480 <28kg / 62lbs. External cabling only
	GD72	Available also as certified precabled version  	Stationary <44kg / 97lbs. Fully internal cabling	Stationary <44kg / 97lbs. Fully internal cabling
	GD76	Available also as certified precabled version  	For Mavig track 480 <44kg / 97lbs. Fully internal cabling	For Mavig track 480 <44kg / 97lbs. Fully internal cabling
	GD65	Available also as certified precabled version  	Stationary For Mavig track 480 <44kg / 97lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance	Stationary For Mavig track 480 <44kg / 97lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance
	GD60	Available also as certified precabled version  	Stationary For OEM tracks <116kg / 255lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance	Stationary For OEM tracks <116kg / 255lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance
	GD67	Available also as certified precabled version  	Stationary For Mavig track 480 For OEM tracks <116kg / 255lbs. Internal cabling, optionally with Kardanic Joint for smooth and collision safe performance	Stationary For Mavig track 480 For OEM tracks <116kg / 255lbs. Internal cabling, optionally with Kardanic Joint for smooth and collision safe performance
	MD70	Available also as certified precabled version  	For mobile cart <27kg / 60lbs. Fully internal cabling	For mobile cart <27kg / 60lbs. Fully internal cabling

3 Monitors	4 Monitors	6 Monitors	8 Monitors
Stationary <44kg / 97lbs. Fully internal cabling			
For Mavig track 480 <44kg / 97lbs. Fully internal cabling			
Stationary For Mavig track 480 <44kg / 97lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance	Stationary For Mavig track 480 <44kg / 97lbs. Fully internal cabling, Kardanic Joint for smooth and collision safe performance		
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For mobile cart <27kg / 60lbs. Fully internal cabling			







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